

Galileo System AIV Principal Engineer

Job Req ID: 12342

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Vacancy Type: Permanent

Date Posted: 03 May 2021

Vacancy in the Directorate of Navigation.

ESA is an equal opportunity employer, committed to achieving diversity within the workforce and creating an inclusive working environment. For this purpose, we welcome applications from all qualified candidates irrespective of gender, sexual orientation, ethnicity, beliefs, age, disability or other characteristics. Applications from women are encouraged.

This post is classified A2-A4 on the Coordinated Organisations' salary scale.

Location

ESTEC, Noordwijk, The Netherlands

Description

Galileo System AIV Principal Engineer in the Galileo G1 System Qualification Unit in the Galileo G1 System AIV and Deployment Service, Galileo First Generation Project Office, Galileo Programme Department, Directorate of Navigation.

Galileo teams at the European Space Agency's technology centre in the Netherlands are in charge of the design, development, procurement, integration and qualification of the Galileo system, including the constellation of satellites in medium-Earth orbit and the ground segment for mission control and security monitoring deployed at remote sites all over the world.

Duties

The Galileo System AIV Principal Engineer reports to the Head of the Galileo First Generation (G1) System Qualification Unit and is in charge of the preparation and execution of the following activities:

- Establishing an overall programme of work and associated planning for Galileo G1 System Integration and Verification, including Ground Segment Integration and Verification, External Service Facilities Integration and Verification, and System Functional and Performance Verification, including field test campaign using test user receivers;
- Following up on the industrial System Engineering Technical Assistance activities related to System Integration and Verification of Galileo G1;
- Contributing to the definition, preparation and execution of Galileo G1 Ground Segment AIV activities in segment factory, on the INT chains and on the VAL/OPE chains;
- Supervising the definition, preparation and execution of Galileo G1 System AIV activities in segment factory, on the INT chains and on the VAL/OPE chains;
- Supervising the definition, preparation and execution of system AIV activities involving the external interfaces with the Service Facilities, including those that will support new Galileo services (for instance Navigation Message Authentication – OS-NMA – and High Accuracy Service – HAS);

- Coordinating the System AIV activities with GSA and the Galileo Service Operator as needed for execution on VAL and OPE chains in the relevant change control boards and planning meetings;
- Following up system and OPS non-conformances and anomalies in the corresponding non-conformance and anomaly review boards (NRB, ARB), ensuring their resolution as quickly as possible and maintaining the overall Galileo G1 qualification status;
- Providing support for preparation of the System Qualification status by reviewing design changes, new developments and changes outside the system requirements and assessing their impact on System Qualification;
- Contributing to the definition of the system tools required to support system qualification and validation activities and coordinating their deployment and use for System AIV;
- Coordinating with all project disciplines, namely the Ground Segment, Space Segment, PA and Safety and Project Control, as required.

Technical competencies

ESA Space systems development, verification and review processes and standards
 Management and monitoring of industrial activities (interfaces with industry, reviews, etc)
 Knowledge and experience of ground segment, simulators and operations covering all mission phases

Experience in the field of Satellite and Radio navigation principles, systems and related technologies

Knowledge on large scale complex ground and space system architecture including interfaces, networks and protocols

Design, development, deployment and testing of complex secure systems

Behavioural competencies

Result Orientation

Operational Efficiency

Fostering Cooperation

Relationship Management

Continuous Improvement

Forward Thinking

Education

A Master's degree in physics, electrical or aerospace engineering or a related field is required.

Additional requirements

At least 5 years' experience in system-level testing, including the organisation of related campaigns.

Good knowledge of ground segment and/or satellite operations and infrastructure.

Proven experience in the verification of complex satellite systems, with several satellites and ground stations, providing services to users, possibly in the GNSS context, is an asset.

Knowledge of mission, spacecraft and/or payload operations will be considered an asset.

You should be able to demonstrate that you can handle pressure and conflict as may typically occur in a project team. You should be results-oriented, able to set priorities, and capable of presenting practical solutions both verbally and in writing.

Candidates shall be eligible for security clearance by their national security administration.

Other information

For behavioural competencies expected from ESA staff in general, please refer to the [ESA Competency Framework](#).

The working languages of the Agency are English and French. A good knowledge of one of these is required. Knowledge of another Member State language would be an asset. The Agency may require applicants to undergo selection tests.

At the Agency we value diversity and we welcome people with disabilities. Whenever possible, we seek to accommodate individuals with disabilities by providing the necessary support at the workplace. The Human Resources Department can also provide assistance during the recruitment process. If you would like to discuss this further please contact us at contact.human.resources@esa.int.

Please note that applications are only considered from nationals of one of the following States: Austria, Belgium, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Romania, Spain, Sweden, Switzerland, the United Kingdom and Canada, Latvia and Slovenia

and in addition of Member States of the European Union not members of ESA: Bulgaria, Croatia, Cyprus, Lithuania, Malta and Slovakia.

According to the ESA Convention the recruitment of staff must take into account an adequate distribution of posts among nationals of the ESA Member States. When short-listing for an interview, priority will first be given to internal candidates and secondly to external candidates from under-represented Member States. (<https://esamultimedia.esa.int/docs/careers/NationalityTargets.pdf>)

In accordance with the European Space Agency's security procedures and as part of the selection process, successful candidates will be required to undergo basic screening before appointment.

Recruitment will normally be at the first grade in the band (A2); however, if the candidate selected has little or no experience, the position may be filled at A1 level.